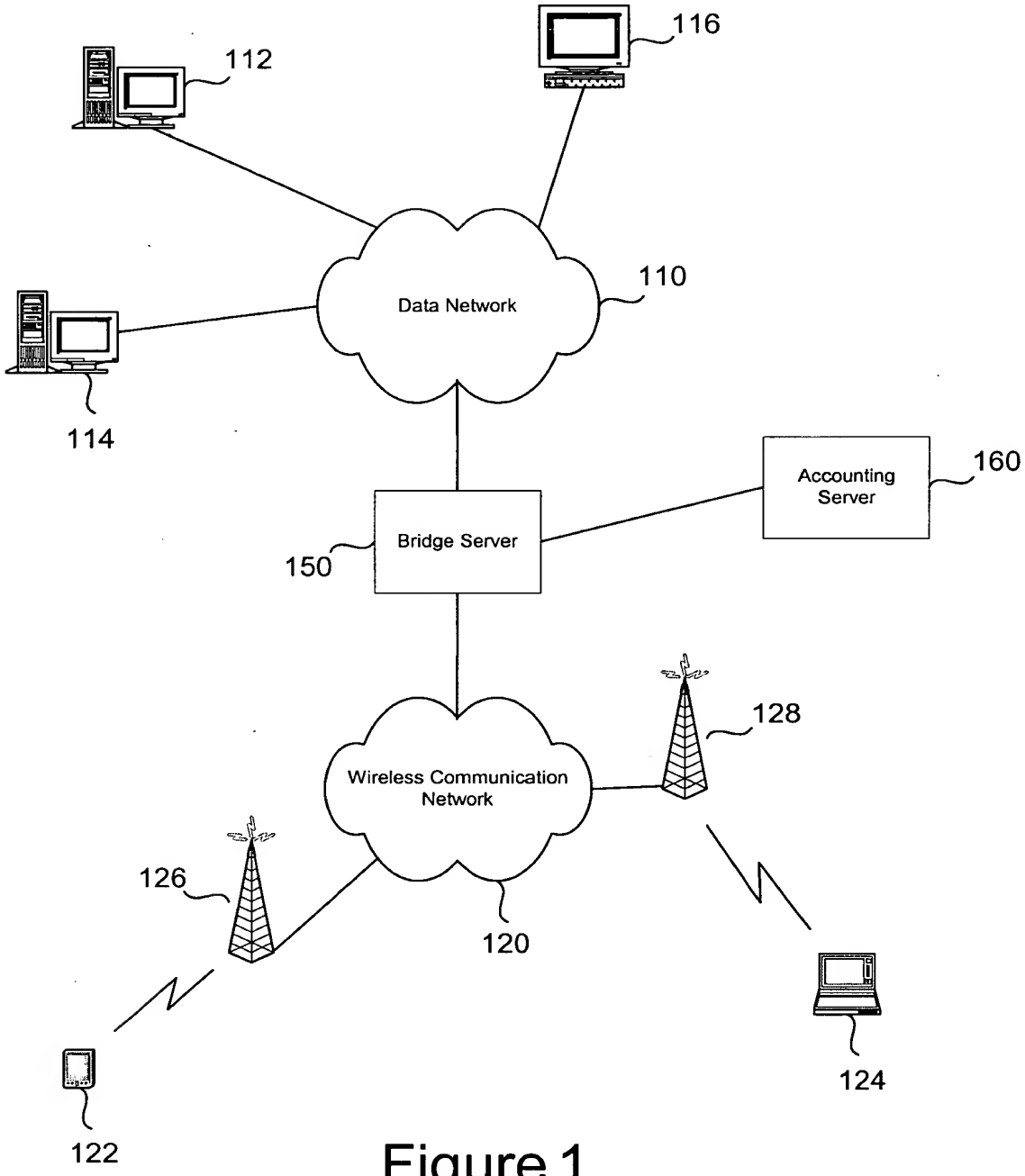

Figure 1

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Figure 2
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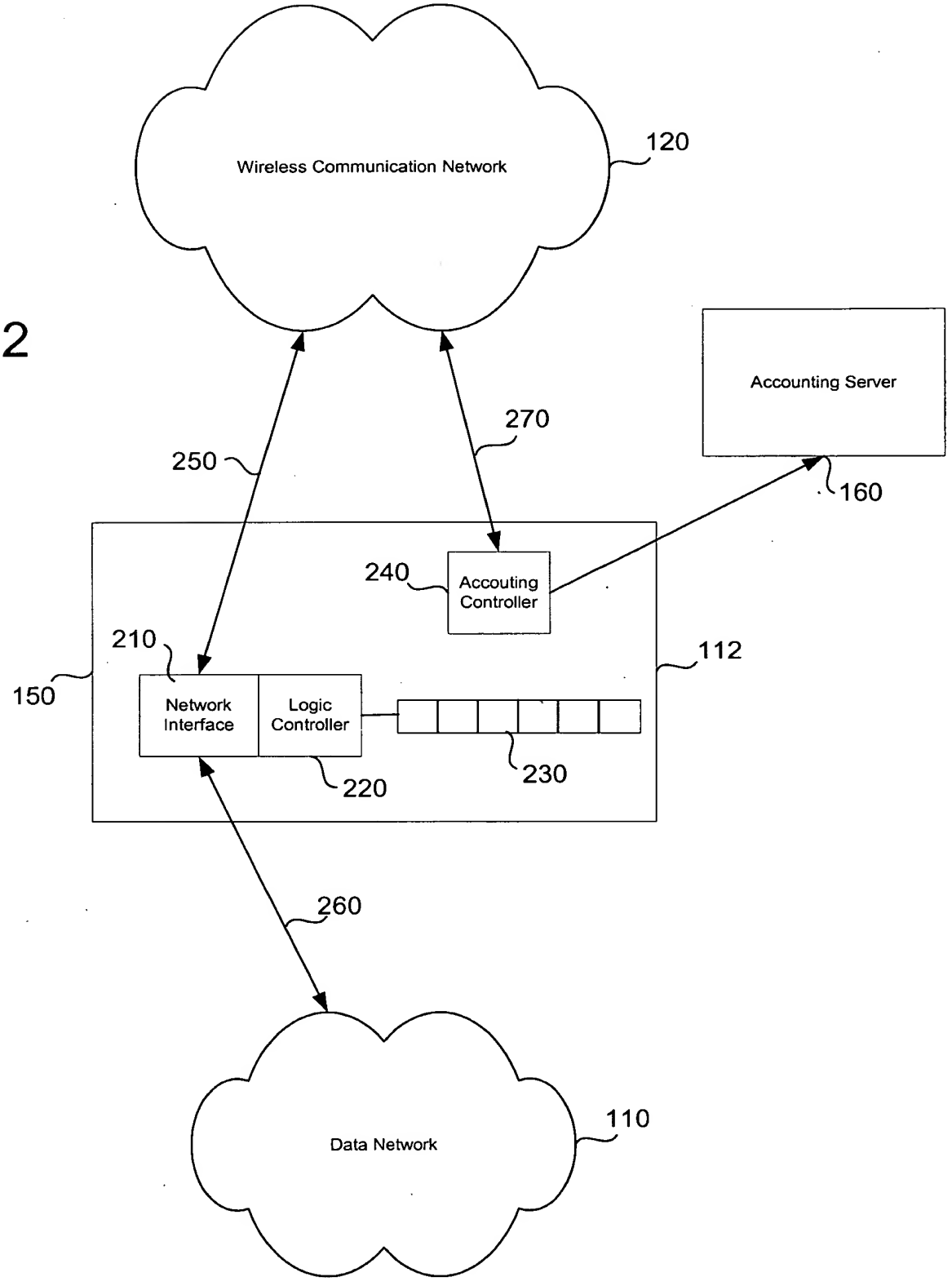

	Item	Parameter	Max Payload Length	Format
310				
320		Airlink Record Type = Y1 (Connection Setup)	1	integer
330		R-P Session ID	4	string
340	a1	MSID	15	string
350	d3	Serving PCF	4	ip-addr
	d4	BS / MSC ID	6	integer

Figure 3

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	Item	Parameter	Max Payload Length	Format
410				
420	y	Airlink Record Type = Y2 (Connection Release)	1	integer
	c1	R-P Session ID	4	string

Figure 4

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	Item	Parameter	Max Payload Length	Format
505		Airlink Record Type = Y3 (Active Start)	1	integer
510		R-P Session ID	4	string
515	e1	User Zone	2	integer
520	f1	Forward Mux Option	2	integer
525	f2	Reverse Mux Option	2	integer
530	f3	Forward Fundamental Rate	1	integer
535	f4	Reverse Fundamental Rate	1	integer
540	f5	Service Option	2	integer
545	f6	Forward Traffic Type(Primary, Secondary)	1	integer
550	f7	Reverse Traffic Type(Primary, Secondary)	1	integer
555	f8	Fundamental Frame Size (5/20 ms)	1	integer
560	f9	Forward Fundamental RC	1	integer
565	f10	Reverse Fundamental RC	1	integer
570	i4	Airlink Quality of Service (QoS)	4	integer

Figure 5

	Item	Parameter	Max Payload Length	Format
610		Airlink Record Type = Y4 (Active Stop)	1	integer
620		R-P Session ID	4	string
630	g8	Active Connection Time in Seconds	4	integer

Figure 6

	Item	Parameter	Max Payload Length	Format
710		Airlink Record Type = SDB	1	integer
720		R-P Session ID	4	string
730	f4	Mobile Originated/Mobile Terminated Indicator	1	integer
740	g10	SDB Octet Count	4	integer

Figure 7

Item	Parameter	Description
A. Mobile Identifiers		
A1	MSID	
B. User Identifiers		
B1	IP Address	IP address of the mobile station.
B2	Network Access Identifier (NAI)	user@domain construct which identifies the user and home network of the mobile station.
C. Session Identifiers		
C1	Account Session ID	A unique accounting ID ID created by the PDSN that allows stop and start records to be matched in a log file.
C2	Correlation ID	An ID that correlates all accounting sessions authorized for this NAI by this access request
D. Infrastructure Identifiers		
D1	MIP Home Agent (HA)	The IP address of the HA
D2	PDSN/FA Address	IP address or other identifier.
D3	Serving PCF	The IP address of the serving PCF
D4	BS / MSC ID	The IP address of the BS/MSC.
E. Zone Identifiers		
E1	User Zone	Tiered Services user zone.
F. Session Status		
		.
F1	Forward Mux Option	
F2	Reverse Mux Option	
F3	Forward Fundamental Rate	
F4	Reverse Fundamental Rate	
F5	Service Option	
F6	Forward Traffic Type	Primary and Secondary
F7	Reverse Traffic Type(Primary, Secondary)	Primary and Secondary
F8	Fundamental Frame Size	The fundamental channel hs the choice of 5 or 20 ms size. The 5ms frame sized comes from the DCCH (dedicated signalig channel) concept and allows fast response fro short signaling messages (short frame can be decoded quickly).
F9	Forward Fundamental RC	
F10	Reverse Fundamental RC	
F11	IP Technology	Indentifies Simple IP, Mobile IP, or another technology.
F12	Compulsory Tunnel Indicator	Indicator of invocation of compulsory tunnel established on behalf of MS for providing private network and/or ISP access during a single packet data connection.
F13	Release Indicator	Specifies reason for sending a stop record.
G. Session Activity		
G1	Data Octet Count (Terminating)	total # of octets sent to the user.
G2	Data Octet Count (Originating)	total # of octets sent by the user.
G3	Bad PPP frame count	total # PPP frames from the mobile stationdropped by PDSN due to uncorrectable errors.
G4	Event Time	Indicates start of accounting session or stop of accounting session if part of a RADIUS start message or stop message, respectively. It is also used in a RADIUS interim message to indicate the time of the event which triggered the interim message.
G8	Active Time	The total active connection time on traffic channel in seconds.

Figure 8A

G9	Number of Active Transitions	The total number of non-active to Active transitions by the user.
G10	SDB Octet Count (Terminating)	The total number of octets sent to the user via Short Data Bursts.
G11	SDB Octet Count (Originating)	The total number of octets sent by the user via Short Data Bursts.
G12	Number of SDBs (Terminating)	The total number of Short Data Burst transactions.
G13	Number of SDBs (Originating)	The total number of Short Data Burst transactions.
870 **H. Special Billing Instructions**		
H1	Alternate Billing Identifier	An IP address or other identifier of alternate entity for which data session usage may be billed.
880 **I. Quality of Service**		
I1	IP Quality of Service (QoS)	The home RADIUS server authorizes the mobile to mark packets (only) with these Differentiated Services code points.
I2	Interconnection IP Network Provider ID	Identifies IP network which connects wireless carrier network to destination.
I3	Interconnecting IP Network Service Quality of Service	Identifies QoS offered by IP network which connects wireless carrier network to destination.
I4	Airlink Quality of Service (QoS)	Identifies airlink QoS

Figure 8B

Time	Wireless Communication Network	Accounting Controller
1	MS is dormant	
2		*Network originated data enters DN and sent to WCN* -- octet_count incremented
3	*SDB is being transmitted over the air*	*More network data enters DN and sent to WCN* -- octet_count incremented
4	-- Airlink record (SDB, sdb_octets1) sent	-- start and stop records sent to acct. server using sdb_octets1 -- octet_count decremented by sdb_octets1
5	*RN decides to put MS on traffic channel* -- Active start airlink record sent	-- start record sent to acct. server
...	...	...
0	*MS goes dormant* -- Active stop airlink record sent	-- stop record sent to acct. server with octet_count -- octet_count zeroed

Figure 9

Time	Wireless Communication Network	Accounting Controller
1	MS is dormant	
2		*Network originated data enters DN and sent to WCN* -- octet_count incremented
3	*SDB1 is being transmitted over the air*	*More network data enters DN and sent to WCN* -- octet_count incremented
4	*SDB2 is being transmitted over the air* -- Airlink record (SDB1, sdb_octets1) sent	*More network data enters DN and sent to WCN* -- increments num_SDBs by 1, and total_SDB_octets by sdb_octets1 -- octet_count incremented
5	*SDB3 is being transmitted over the air* -- Airlink record (SDB2, sdb_octets2) sent	*More network data enters DN and sent to WCN* -- PDSN increments num_SDBs by 1, and total_SDB_octets by sdb_octets2 -- octet_count incremented
6		*Interim timer expires* -- start and stop records sent to acct. server using num_SDBs, total_SDB_octets and octet_count -- Clear num_SDBs, total_SDB_octets and octet_count
7	-- Airlink record (SDB3, sdb_octets3) sent	*More network data enters DN and sent to WCN* -- increments num_SDBs by 1, and total_SDB_octets by sdb_octets3 -- octet_count incremented
8	*WCN decides to put MS on traffic channel* -- Active start airlink record sent	*More network data enters DN and sent to WCN* -- start record sent to acct. server with num_SDBs, total_SDB_octets and octet_count -- octet_count incremented
...	...	...
n	*MS goes dormant* -- Active stop airlink record sent	-- stop record sent to acct. server with num_SDBs, total_SDB_octets and octet_count -- Clear num_SDBs, total_SDB_octets and octet_count

Figure 10

Time	Wireless Communication Network	Accounting Controller
1	MS is dormant	
2		*Network originated data enters DN and sent to WCN* -- octet_count incremented
3	*WCN decides to put MS on traffic channel* Active start airlink record sent	*Network originated data enters DN and sent to WCN.* -- start record sent to acct. server -- octet_count incremented
4	*MS goes dormant* -- Active stop airlink record sent	-- stop record sent to acct. server using octet_count -- octet_count zeroed
5		*Network originated data enters DN and sent to WCN.* --octet count incremented
6	*WCN decides to put MS on traffic channel* Active start airlink record sent	-- start record sent to acct. server
7	*MS goes dormant* -- Active stop airlink record sent	-- stop record sent to acct. server with octet_count -- octet_count zeroed

Figure 11

Time	Wireless Communication Network	Accounting Controller
1	*WCN decides to put MS on traffic channel and new PPP is established* Active start airlink record (new PPP) sent	-- start record sent to acct. server
2	*MS goes dormant* -- Active stop airlink record (active_time1) sent	-- *increment total_active_time by active_time1*
3		*Network originated data enters DN and sent to WCN.* -- octet_count incremented
4	*WCN decides to put MS on traffic channel* Active start airlink record sent	*Network originated data enters DN and sent to WCN.* -- octet_count incremented
5	*MS goes dormant* -- Active stop Airlink record (active_time2) sent	increment total_active_time by active_time2
6		*Interim timer expires* -- interim record sent to acct. server with octet_count and total_active_time -- octet_count and total_active_time zeroed
...	...	...
n		*PPP Session is closed (timeout)* -- stop record sent to acct. server with octet_count and total_active_time

Figure12

Figure 13
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